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CSIRO 4010

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CSIRO 4009

Sci - Biol
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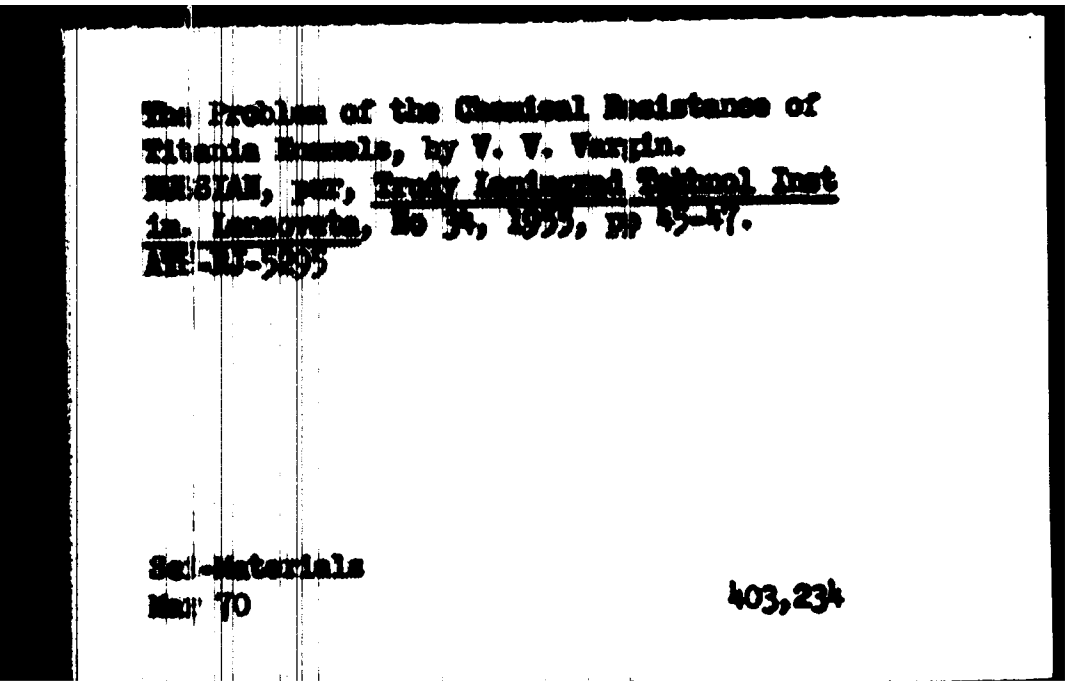

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Sci - Physics
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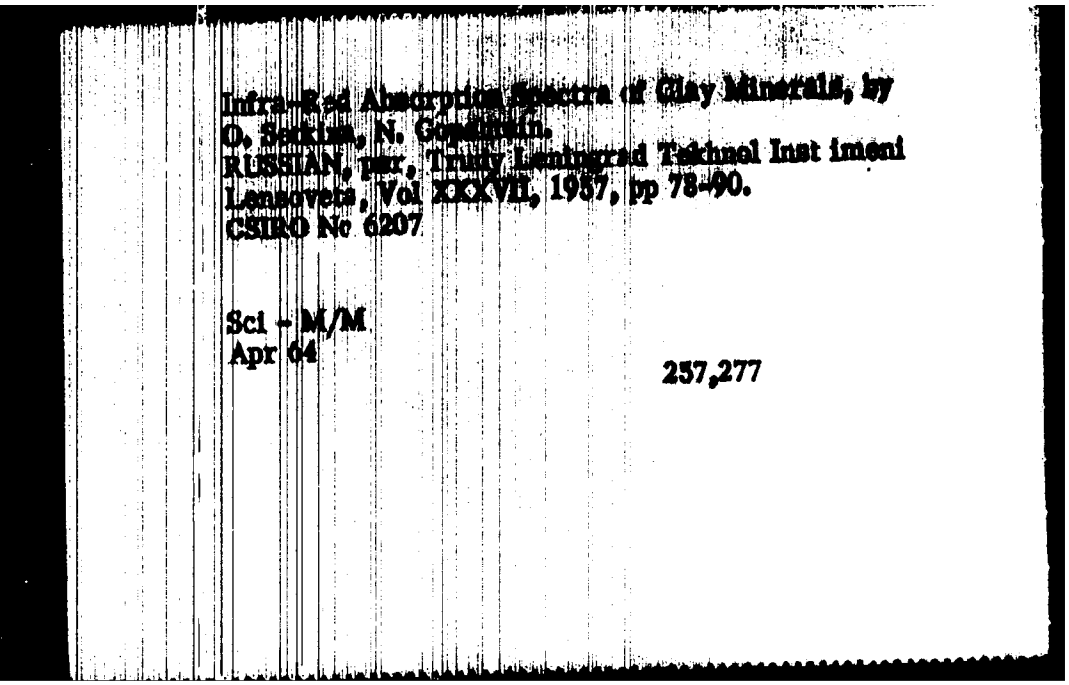

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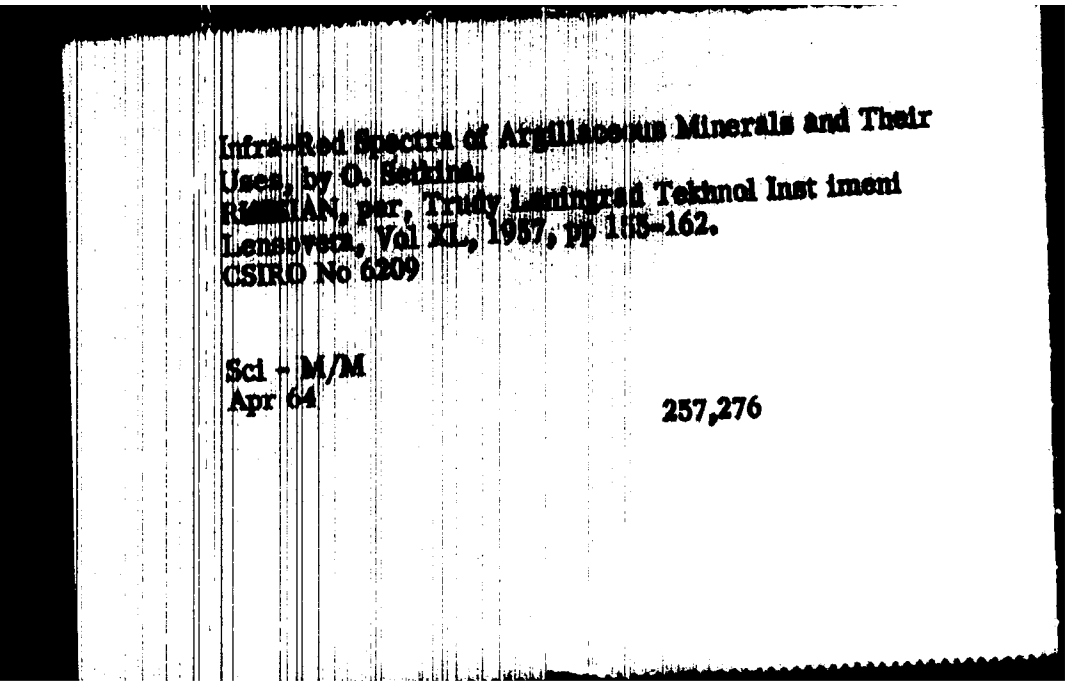

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Order from OTS or SLA $3.60 Trudy 61-27056

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DESCRIPTORS: *Binders, *Cements, Gypsum, Sulfates, Fluorine, Minerals, Silicates, Chemical waste, Industrial production, Phosphates, Magnesium compounds, Calcium compounds.

Contents:
Comparative investigation of the mineralizing action of fluorine-containing wastes of the superphosphate (Engineering--Chemical, TT, v. 6, no. 7) (over)

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II. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

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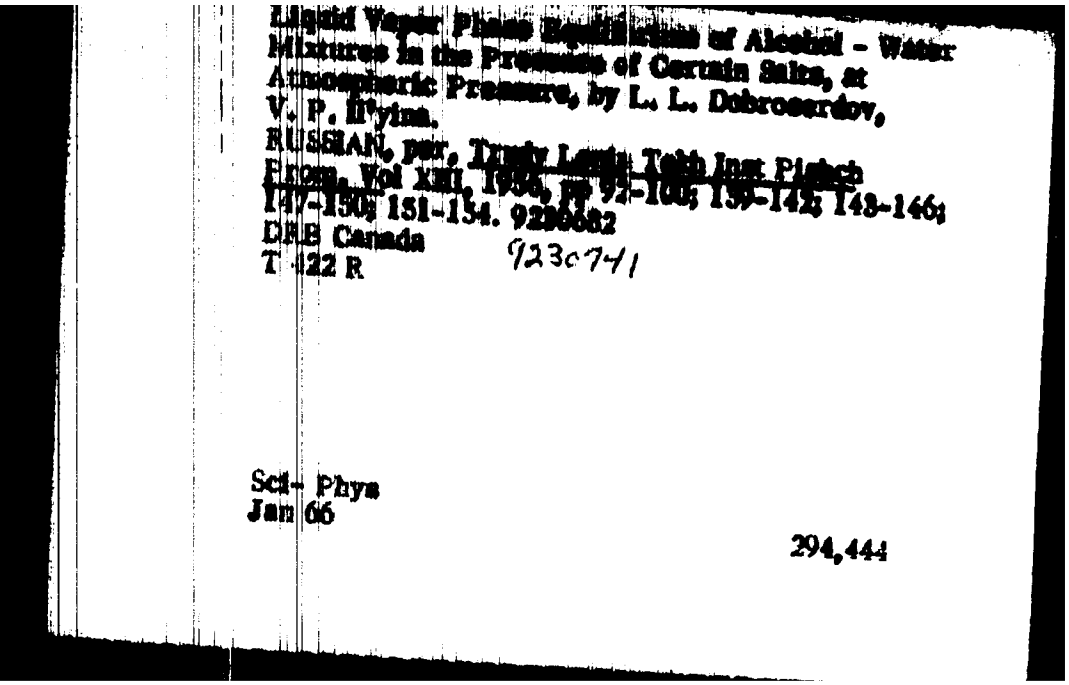

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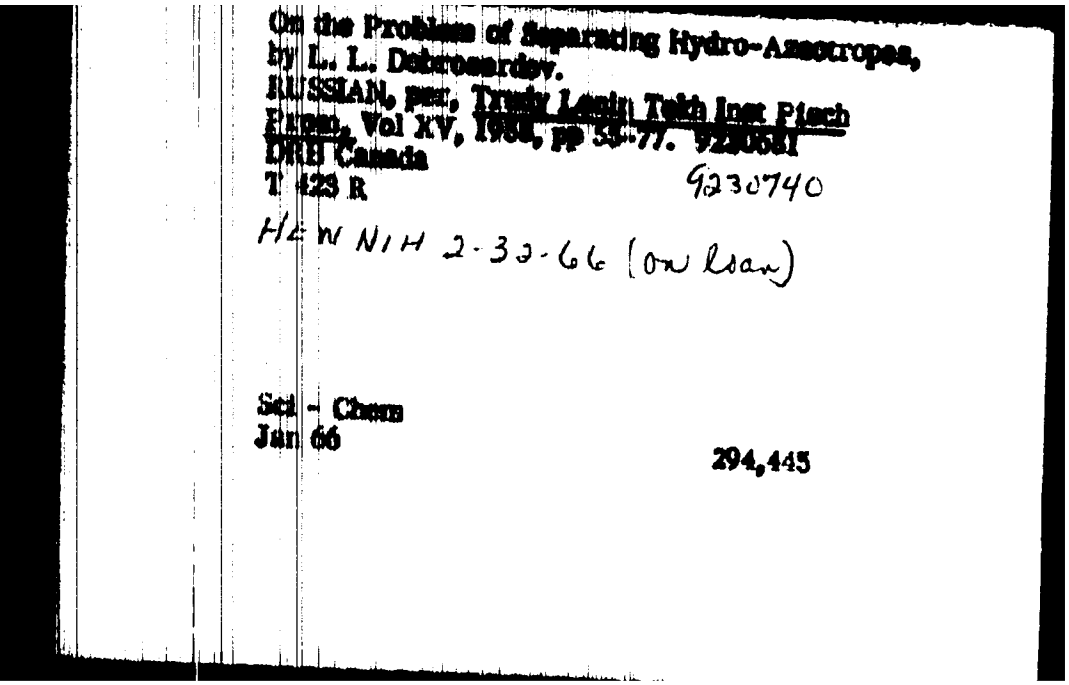

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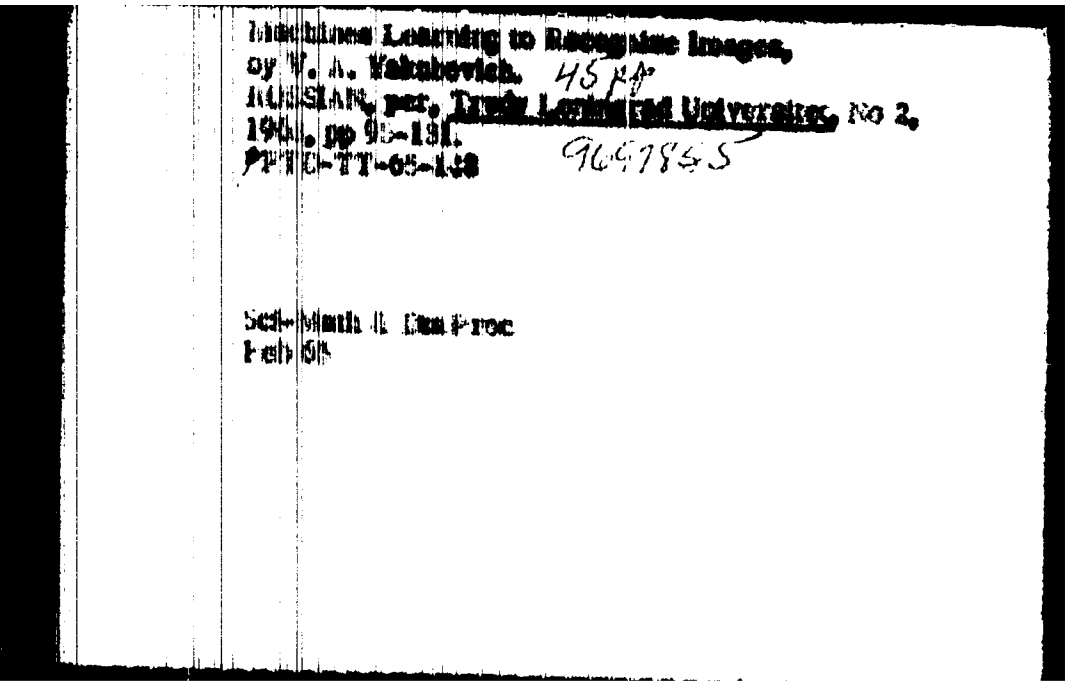

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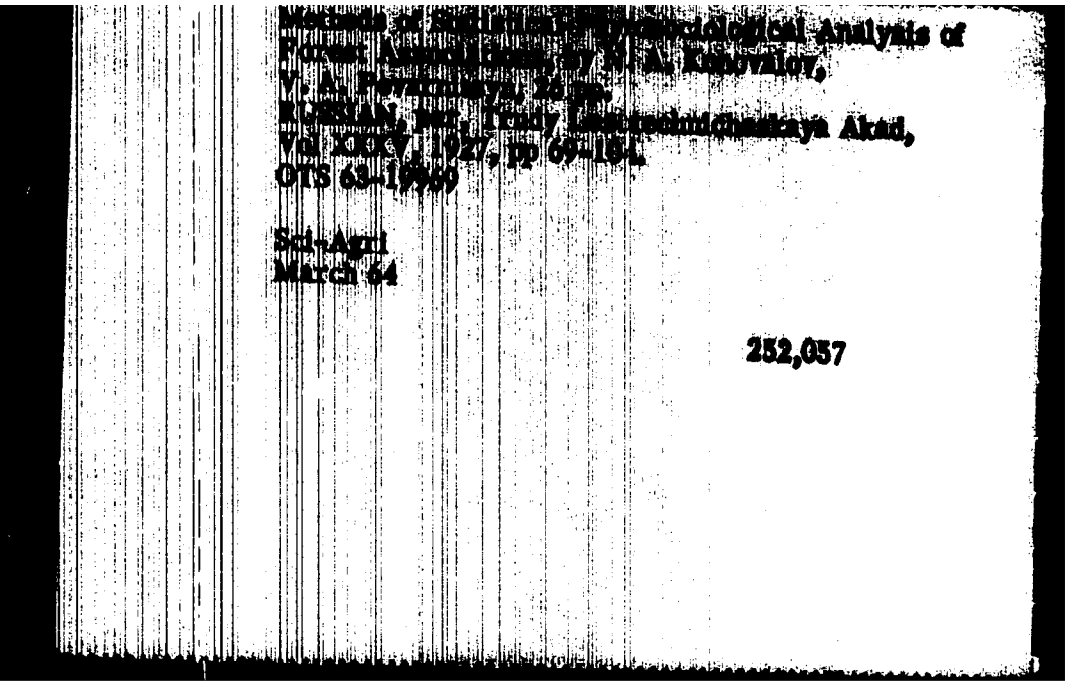

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March 64

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Sci
2? May 62

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100100056-5

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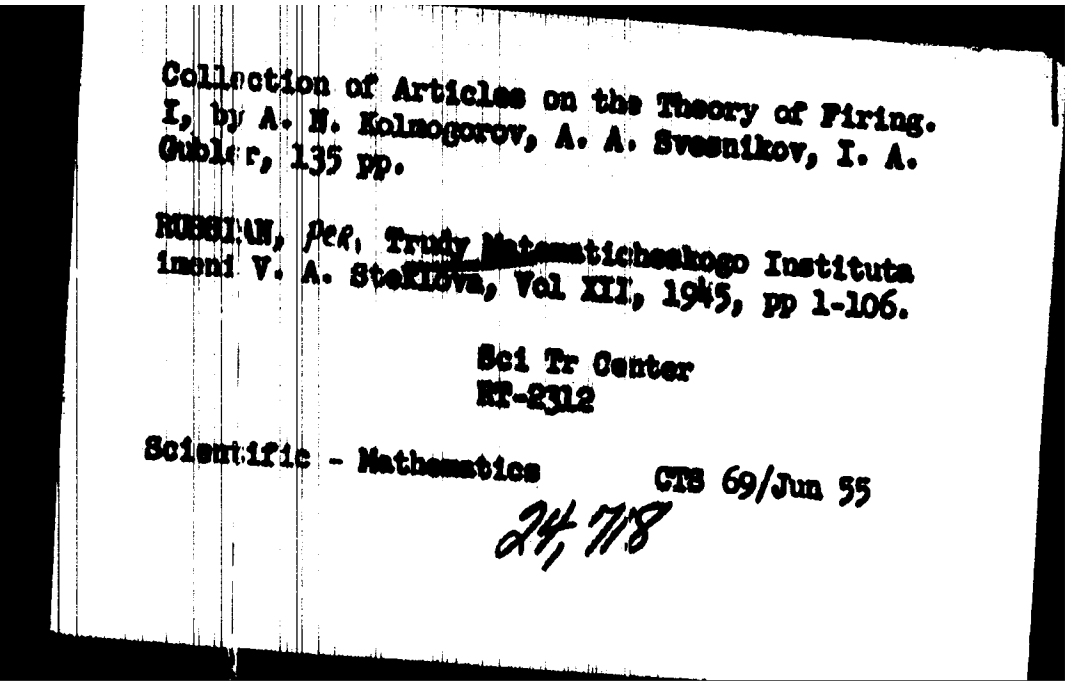

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I, by A. N. Kolmogorov, A. A. Svesnikov, I. A.
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Limit Distributions for the Terms of a Variational Series, by N. V. Smirnov.

Full translation.

RUSSIAN, Per, Trudy Matemat Inst imeni V. A. Steklova, Vol XXV, USSR, 1949 pp 1-50.

AEC Tr KB 1296

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The Method of Straight Lines in the Application to Certain Boundary Problems, by V. N. Faddeyeva, 42 pp.
RUSSIAN, par, AN SSSR, Trudy, "Matematicheskogo Instituta", Vol 28, 1949, pp 73-103.
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APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100100056-5

Kantorovich, L. V.
ON THE METHOD OF NEWTON. [1963] [46p] 19refs
Order from OTS, SLA or ETC $4.60 TT-63-20748

Trans. of [Akademiya Nauk SSSR]. Matematicheskii Institut. Trudy, 1949, v. 28, p. 104-144.
(Abstract available)

DESCRIPTORS: *Numerical methods and procedures, Algebra, Equations, Integral equations, Matrix algebra, Mathematics,

Newton's method is developed for application to systems of algebraic equations, nonlinear integral equations, and the eigenvalue problem. The fundamental theorems on convergence of the method are presented as well as a theorem on the existence and uniqueness of solutions. (Translators)

(Mathematics, TT, v. 11, no. 4)

TT-63-20748

1. Title: Newton's method
I. Kantorovich, L. V.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100100056-5

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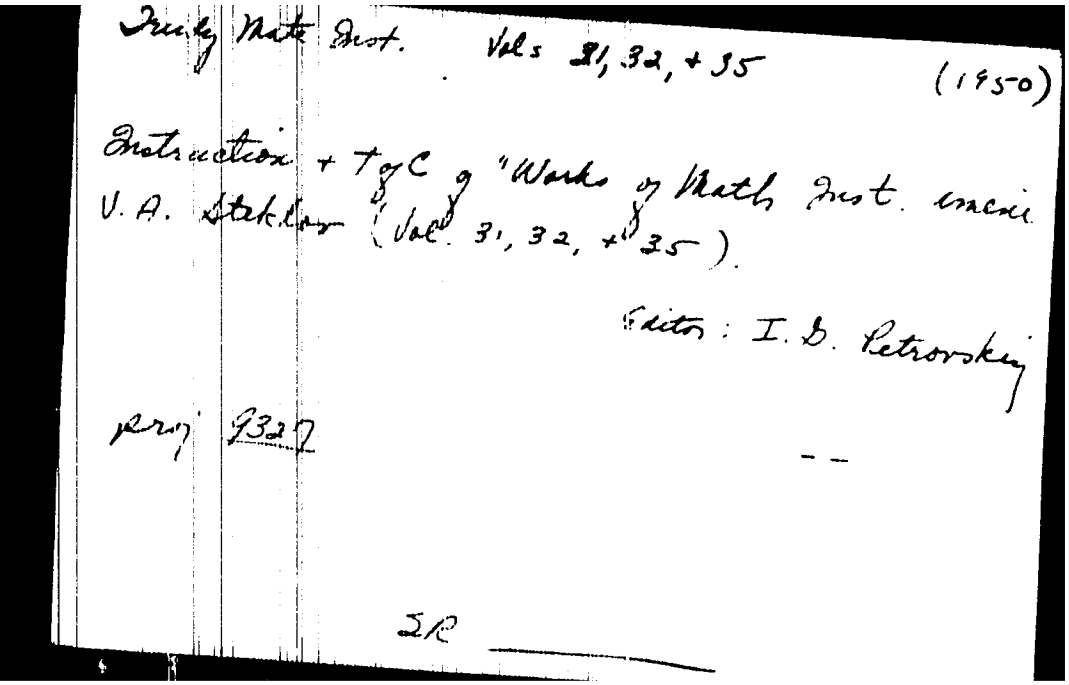

Trudy Mat. Inst. Vols 31, 32, + 35 (1950)

Instruction + TgC g "Works of Math Inst. incl.
V. A. Steklov (Vol 31, 32, + 35).

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On the Convergence in Measure of Trigonometric
Series, by D. E. Men'shov, 75 pp. UNCLASSIFIED

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Linear Differential Equations of Infinite Order with Constant Coefficients and Asymptotic Periods of Entire Functions, by A. O. Gel'fond.

Full translation.

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AEC Tr 1546

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The Theory of Algorithms, by A. A. Markov, [illegible]

RUSSIAN, Doklady Akademii Nauk SSSR (N.S.), Vol. [illegible]
1951, pp. 176-179.

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62-33269

Kerimov, M. K.
ON TWO-DIMENSION DISCONTINUOUS PROBLEMS OF THE CALCULUS OF VARIATIONS, tr. by Donald C. Rich. 19 Sep 62 [15]p. 8 refs. [AMC] (Redstone) Trans- nr 33-62.
Order from OTS or SLA $1.60) 62-33269

Trans. of [Akademiya Nauk Gruzinskoi SSR, Tiflis], Matematicheskii Institut. Trudy, 1951, v. 18, p. 210-219.

DESCRIPTORS: *Calculus of variations.

(Mathematics, TT, v. 9, no. 9)

1. Title: Two-dimensional problem
I. Kerimov, M. K.
II. AMC(Redstone) Trans-33-62
III. Army Missile Command, Redstone Arsenal, Ala.

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On the Consistency of Some Propositions of the Descriptive Theory of Sets, by P. S. Novikov.

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Markov, A. A.
THEORY OF ALGORITHMS (Teoriya Algorifmov) tr. by Jacques J. Schorr-Kon and others. 1961, 14p. 32 refs. PL-480.
Order from OTS $4.50 60-51085

Trans. of Akademiya Nauk SSSR, Matematicheski Institut. Trudy, 1954, v. 42.
Part I translation of introduction, chaps. 1-3, and 5-6 are available separately.

DESCRIPTORS: *Mathematics, Numerical methods and procedures, Mathematical logic, Theory.

The material here comprises a series of lectures given by the author several times at the Leningrad University. Chapter headings are entitled (1) letters, alphabets, and words; (2) the notion of algorithm; (3) the construction of normal algorithms; (4) the universal algorithm; (Mathematics, TT, v. 6, no. 11) (over)

60-51085

I. Title: Algorithms
I. Markov, A. A.
II. PL-480(60-51085)
III. National Science Foundation, Washington, D. C.

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The Theory of Algorithms, by A. A. Markov

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CIA/FDD K-2818

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Topological Duality Theorems. I. Closed Sets, by P. S. Aleksandrov.

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Calculation of a Point Detonation With Counterpressure Taken Into Account, by D. Ye. Okhotsimskiy, I. L. Kondrashova, Z. P. Vlasova, R. K. Kazakova, 93 pp.

RUSSIAN, per, Trudy Matemat Inst imeni V. A. Steklova, No 50, 1957, pp 1-65.

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Sci - Phys

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Functional Construction in K-Valued Logic, by
S. V. Yablonsky, 176 pp.

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12 (NY-3316)

On the Separability of Subsets of Vertices of an n-Dimensional Unit Cube, by Yu. I. Zhuravlev, 17 pp.

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Possibilities of Synthesis of Circuits From Arbitrary Elements, by O. B. Lupanov, 21 pp.

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On the Theory of Non-Repetitive Networks, by B. A. Trakhtenbrot, 82 pp.

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On a Minimal Alphabet of Algorithms Over a Given Alphabet, by N. M. Nagornyi.

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On Constructive Functions, by A. A. Markov.

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The Conditionality of Matrices, by D. K. Faddeyev, 7 pp.

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Topological Duality Theorems. II. Non-Closed Sets, by P. S. Aleksandrov.

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The Solution of Certain Nonsteady-State Problems of Magnetohydrodynamics for a Viscous Incompressible Fluid, by O. A. Ladyzhenskaya, V. A. Solonnikov, 83 pp.

RUSSIAN, [illegible], Trudy Matemat Inst imeni V. A. Steklova, Matemat Voprosy Gidrodinamiki i Magnitnoy Gidrodinamiki Dlya Vyazkoy Neszhimayemoy Zhidkost', Ak Nauk Soyuza Sovetskikh Sotsialisticheskikh Respublik, Vol LIX, Moscow, 1960, pp 115-173.
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Investigation of a Family of Function Spaces in Connection with Theorems of Imbedding and Extension, by O. V. Besov, 42 p.
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An Extension of the Principle of Subordination to Multiply Connected Regions, by Ju. E. Alenicyn, 18 p.
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Application of Theory of Optimal Processes to Function Approximation ~~RRRR~~ Problems, by V. G. Boltyanskiy, 19 pp.

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Mathematical Problems in the One-Velocity Theory of Particle Transport, by V. S. Vladimirov, 303 pp.

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Linear Methods of Approximation of Certain Classes of Periodic Continuous Functions, by A. V. Efimov.

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On a Generalization of Liouville's Theorm, by
V. S. Vladimirov, 20 p.
RUSSIAN, per, Trudy Matemat Instituta Steklov,
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On Approximation of Functions in the Spaces $W_p^{(l)}(D)$ and $W_p^{(l)}(D)$ by Continuoualt Differentiable Functions, by V. P. Il'in, 20 p.
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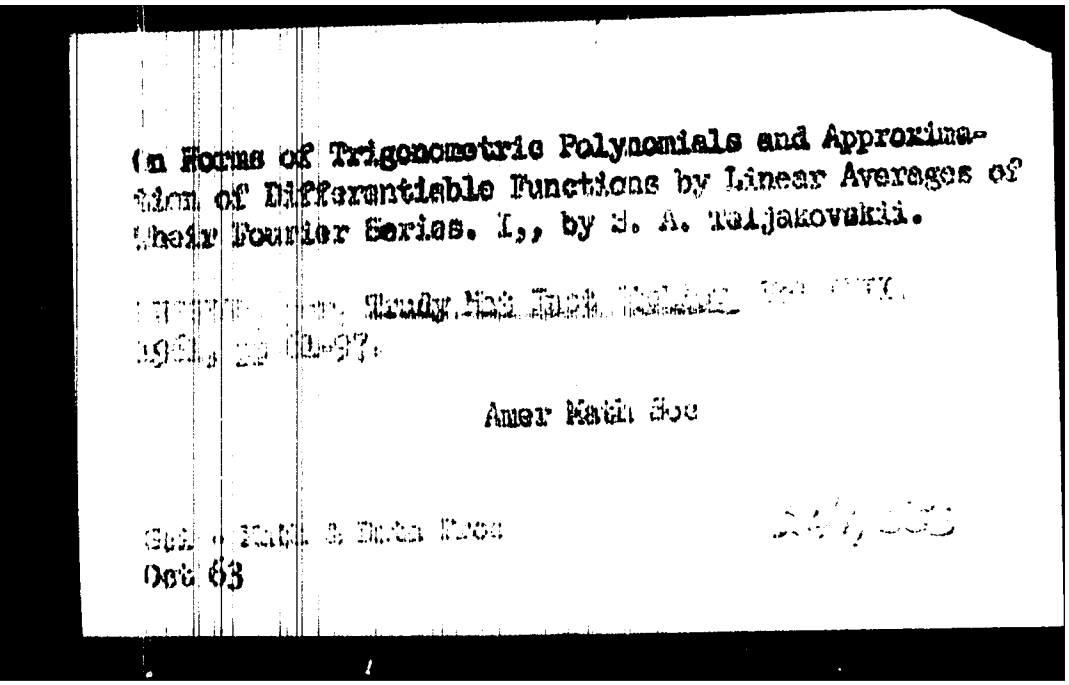

(n Forms of Trigonometric Polynomials and Approxima-
tion of Differentiable Functions by Linear Averages of
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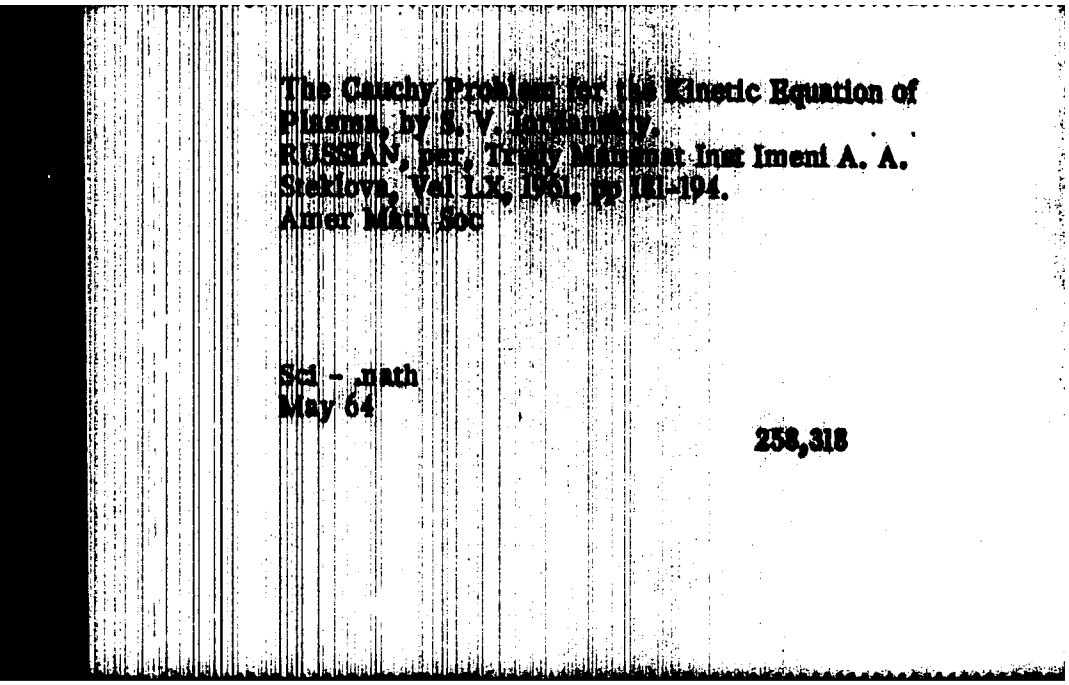

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Principal Homogeneous Spaces Defined
Over a Function Field, by I. R. Safarevic, 30 pp.
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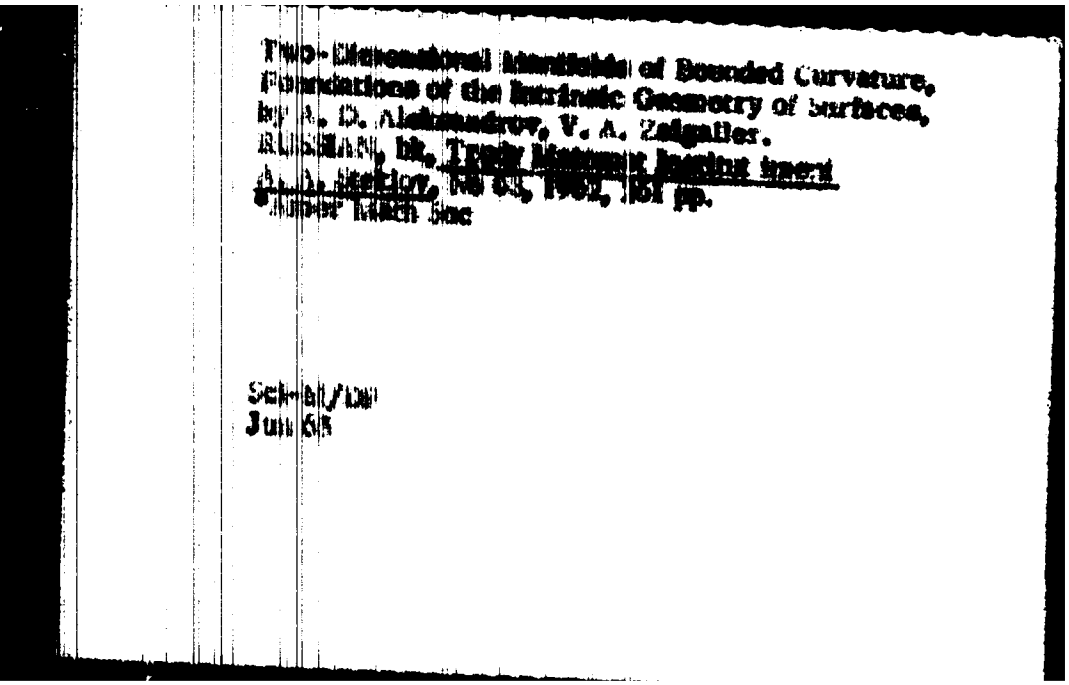

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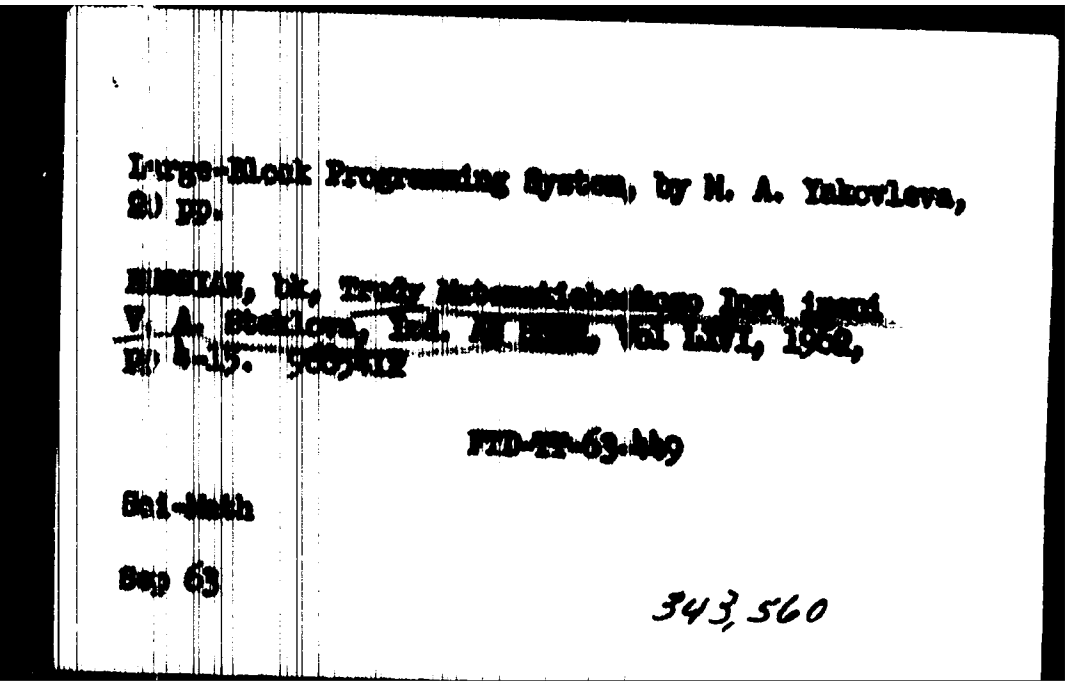

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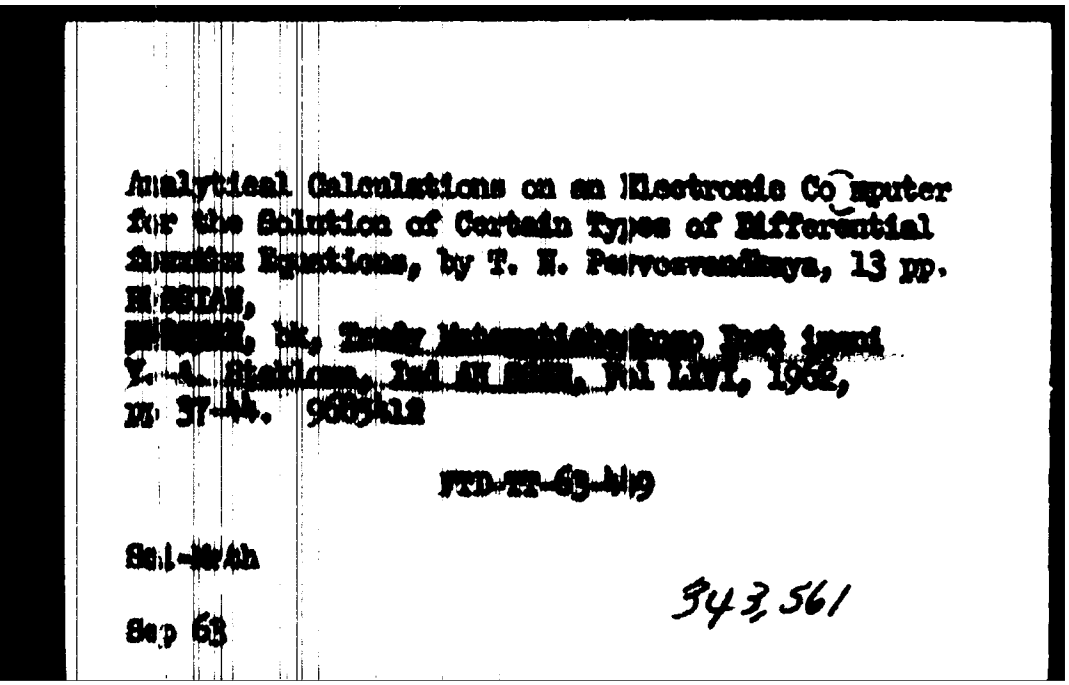

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